

## FLUID POWER EQUIVALENTS & CONVERSIONS

### FLUID POWER EQUIVALENTS

1 ATMOSPHERE AT SEA LEVEL = 1.013 BAR  
29.921 INCHES Hg  
14.696 PSI  
760 mm Hg

1 HP = 33,000 FT-LB / MINUTE  
550 FT-LB / SECOND  
2545 BTU / HR  
42.4 BTU / MINUTE  
746 WATTS

1 US GALLON = 231 CUBIC INCHES  
128 LIQUID OUNCES  
3.785 LITERS  
0.8333 IMPERIAL GALLONS

1 BAR AT SEA LEVEL = 14.504 PSI  
0.98692 ATMOSPHERES  
41 FEET OIL COLUMN  
33.6 FEET WATER COLUMN

1 PSI = 2.0416 INCHES OF MERCURY  
27.771 INCHES OF WATER

### FLUID POWER CONVERSIONS

TO CONVERT	INTO	MULTIPLY BY	TO CONVERT	INTO	DIVIDE BY
BAR	PSI	14.5	PSI	BAR	14.5
CC	CUBIC INCH	0.06102	CUBIC INCH	CC	0.06102
KW	HP	1.341	HP	KW	1.341
LITERS	GALLONS	0.2642	GALLONS	LITERS	0.2642
MPa	PSI	145.037	PSI	MPa	145.037
In Hg	PSI	0.4912	PSI	In Hg	0.4912
In H <sub>2</sub> O	PSI	0.03613	PSI	In H <sub>2</sub> O	0.03613